IN100 (SERIES)









Declaration of Conformity

Manufacturer: InFocus Corporation, 13190 SW 68th Parkway, Suite 200, Portland, Oregon 97223-8368 USA

We declare under our sole responsibility that this projector conforms to the following directives and norms:

ErP Directive 2009/125/EC

EMC Directive 2004/108/EC

Low Voltage Directive 2006/95/EC

EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

Safety: IEC 60950-1: 2005 (MOD)

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NOTE: This product is covered electrical and electronic equipment under the European Union's Waste from Electrical and Electronic Equipment ("WEEE") Directive (2002/96/EC). The WEEE Directive requires that covered equipment be collected and managed separately from typical household waste in all EU member states. Please follow the guidance of your local environmental authority or ask the shop where you purchased the product for collection or recycling options.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- --Reorient or relocate the receiving antenna.
- --Increase the separation between the equipment and receiver.
- --Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by InFocus Corporation may void authority to operate the equipment.

Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Agency Approvals

cTUVus

Other specific Country Approvals may apply. Please see product certification label.

This document applies to regulatory model T146.

Input ratings: 100-240Vac, 2.7A, 50-60Hz

InFocus reserves the right to alter product offerings and specifications at any time without notice.

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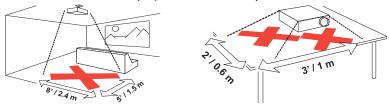
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Important Operating Considerations for Safety

- Refer to this guide for proper startup and shutdown procedures.
- Follow all warnings and cautions in this manual and on the projector.
- Place the projector in a horizontal position no greater than 15 degrees off axis.
- Locate the projector at least 4' (1.2m) away from any heating or cooling vents.
- Do not block ventilation openings. Locate the projector in a well-ventilated area without obstructions to intake or exhaust vents. Do not place the projector on a tablecloth or other soft covering that may block the vents.
- Do not place the projector in direct sunlight, humid, greasy or dusty places or in places where the projector may come into contact with smoke or steam.
- Do not touch or block the projector lens with any objects as this can damage the projector lens. Use the lens cap when the projector is not in use and during transport. Scratches, gouges and other lens damage are not covered by the product warranty.
- Do not look directly into the lens while the projector is being used.
- Do not drop the projector.
- Do not spill liquid on the projector. Spilled liquid may damage the projector.
- Use the power cord provided. Connect the power cord to a receptacle with a protective safety (earth) ground terminal. A surge-protected power strip is recommended.
- Do not overload wall outlets.
- When disconnecting the power cord, hold the plug, not the cord.
- Wash hands after handling the cables supplied with this product.
- The projector remote control uses batteries. Make sure the batteries' polarity (+/-) is aligned correctly. Dispose of used batteries in accordance with local disposal laws.
- Use an InFocus approved ceiling mount kit for proper fitting, ventilation and installation. The warranty does not cover any damage caused by use of nonapproved ceiling mount kits or by installing in an improper location.
- When the projector is ceiling mounted, wear protective eyewear to prevent eye injury before opening lamp door.

- Refer all service to qualified service personnel. Servicing your own projector can be dangerous to you and will void the warranty.
- Only use replacement parts specified by InFocus. Unauthorized substitutions may result in fire, electrical shock, or injury, and may void the warranty
- Only genuine InFocus lamps are tested for use in this projector. Use of non InFocus lamps may cause electrical shock and fire, and may void the projector warranty.
- Hg Lamp contains mercury. Manage in accordance with local disposal laws. See www.lamprecycle.org.
- The projector uses a high-pressure mercury glass lamp. The lamp may fail
 prematurely, or it may rupture with a popping sound if jolted, scratched, or
 handled while hot. The risk of lamp failure or rupture also increases as the
 lamp age increases; please replace the lamp when you see the "Replace Lamp"
 message.
- In the unlikely event of a lamp rupture, particles may exit through the projector vents. Keep people, food, and drinks out of the "keep out" area under and around the projector, as indicated by the "X" areas below.



Follow these instructions to help ensure image quality and lamp life over the life of the projector. Failure to follow these instructions may affect the warranty. For complete details of the warranty, see the Warranty Booklet.

Introduction

Your new digital projector is simple to connect, easy to use, and straightforward to maintain. It is a versatile projector that is flexible enough for business presentations and home video viewing too. IN146 has native WXGA 1280 \times 800 resolution. It is compatible with a wide variety of computers and video devices.

Product specifications

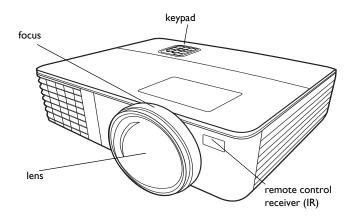
To read the latest specifications on your multimedia projector, be sure to visit our website at **www.infocus.com**, as specifications are subject to change.

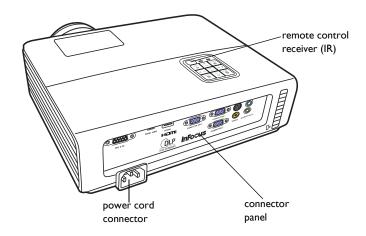
Accessories

The standard accessories that came with your projector are listed in the included Quick Start Booklet. Optional accessories can be found on our website at **www.infocus.com** or at your retailer or dealer.

Online registration

Register your projector on our website at **www.infocus.com/register** to activate your warranty and receive product updates, announcements, and registration incentives.

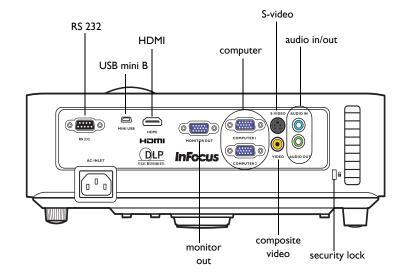




Connector panel

The projector provides both computer and video connection options, including:

- VGA computer
- Composite video
- HDMI
- S-video
- USB mini B connector for firmware upgrades and presentation slide control.
- Monitor out, for VGA pass through to an external monitor.
- Audio input for video and computer.
- Audio output to external speakers.
- RS-232 serial control. Command control codes are on our support website at www.infocus.com/support.



Positioning the projector

To determine where to position the projector, consider the size and shape of your screen, the location of your power outlets, and the distance between the projector and the rest of your equipment. Here are some general guidelines:

- Position the projector between 30 inches (.75m) and 65 inches (1.65m) from the screen. To ensure adequate cable access, do not place the projector within 24 inches (.61m) of a wall or other object.
- If you are installing the projector on the ceiling, we strongly recommend using InFocus approved ceiling mounts for proper fitting, ventilation and installation. Refer to the installation guide that comes with the InFocus Ceiling Mount Kit (p/n SP-CEIL-UNIV) for more information. The warranty does not cover any damage caused by use of non-approved ceiling mount kits or by installing in an improper location. To turn the image upside down, see "Ceiling mount" on page 28. We recommend using an InFocus authorized ceiling mount.
- Position the projector the desired distance from the screen. The distance from the lens of the projector to the screen and the video format determine the size of the projected image. (The throw ratio of the IN146 is 0.49:1.)
- IN 146 image offset is 5% +/-2%. This means that if you have an image 40 inches (1 meter) tall from a table-mounted projector, the bottom of the image will be 2 inches (5 cm) above the centerline of the lens.

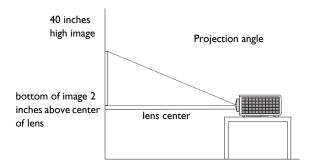


Table 1: Screen Size

Diagonal Screen Size		Size of the Projected Image Width			Projection Distance (L) Minimum	
Feet	Inches	Meters	Inches	Milimeters	Meters	Inches
5.9	71	1.8	60	153	0.75	30
6.7	80	2.0	64	163	0.8	33
7.5	90	2.3	72	183	0.9	37
8.3	100	2.5	80	203	1.1	41
10.0	120	3.0	96	244	1.3	50
12.5	150	3.8	120	305	1.6	62
13.0	156	4.0	133	337	1.65	65

Connecting a computer source

VGA connection

Connect one end of the provided computer cable to the **Computer 1/Computer 2** connector on the projector and the other to the VGA connector on your computer. If you are using a desktop computer, you will need to disconnect the monitor cable from the computer's video port first.

connect VGA cable



HDMI I.3 connection

HDMI is a standard, uncompressed, all-digital audio/video interface. HDMI provides an interface between sources, such as set-top boxes, DVD players, and receivers and your projector. Plug an HDMI cable into the video-out connector on the video device and into the HDMI connector on the projector.

connect HDMI



Connecting power

Connect the black power cord to the **Power** connector on the rear of the projector and to your electrical outlet. The Power light on the Status Indicator Panel (page 11) turns amber. **NOTE**: Always use the power cord that shipped with the projector.

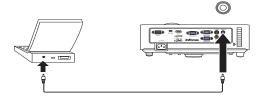




Optional computer connections

To get sound from the projector, connect an audio cable (optional cable, not included) to your computer and to the **Audio In** connector on the projector. You may also need an adapter.

connect audio cable



If you are using a desktop computer and want to see the image on your computer screen as well as on the projection screen, connect to the desktop's computer cable to Computer I and the desktop's monitor cable to the **Monitor Out** connector on the projector.

Displaying an image

Touch the **Power** button.

The Power button blinks green and the fans start to run. When the lamp comes on, the start up screen displays and the Power button is steady green. It can take up to a minute for the image to achieve full brightness.

? No start up screen? Get help on page 12.

Turn on your computer or video device.

The image should appear on the projection screen. If it doesn't, press the **Source** button on the projector's keypad or remote.

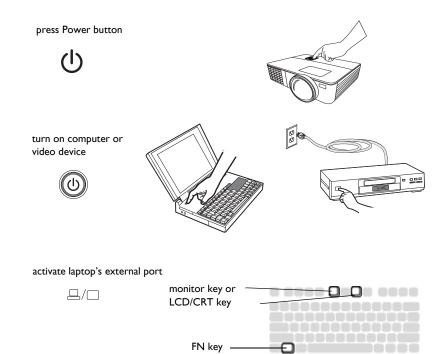
If you are using a VGA cable to connect your computer to the projector:

If using a laptop, make sure its external video port is active.

Many laptops do not automatically turn on their external video port when a projector is connected. Usually a key combination like FN + F8 or CRT/LCD key turns the external display on and off. Locate a function key labeled CRT/LCD or a function key with a monitor symbol. Press FN and the labeled function key simultaneously.

Refer to your laptop's documentation for more information about your laptop's key combination or go to the InFocus website at: http://www.infocus.com/Support/LaptopActivation.aspx.

? No laptop image? Try pressing the AUTO IMAGE button on the keypad. Get help on page 12.



Adjusting the image

If necessary, adjust the height of the projector by pressing the elevator foot release button to extend the foot.

If necessary, rotate the leveling foot located at the rear of the projector.

Avoid placing your hands near the hot exhaust vent at the front of the projector.

Position the projector the desired distance from the screen at a 90 degree angle to the screen.

See page 6 for a table listing screen sizes and distances.

Adjust the focus.

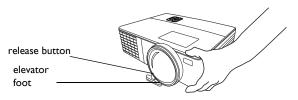
If the image is not square, first make sure that the projector is perpendicular to the screen. If the image is larger or smaller on the top or bottom edge of the screen, press the top **Keystone** button to reduce the upper part of the image, and press the bottom **Keystone** button to reduce the lower part.

If the left or right side of the screen is larger or smaller the other, you can turn the projector to the left or to the right a few degrees to square the image.

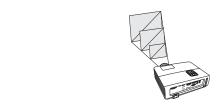
Adjust the Contrast or Brightness in the Basic Menu. See page 26 for help with these menu adjustments.

For Aspect Ratio, keep in mind that DVD players must be configured for 16:9 in order to view the highest quality image. For more information regarding Aspect Ratio, see page 10.

adjust height



adjust distance



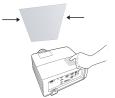
adjust focus



adjust keystone







adjust Basic Menu





Connecting a video device

You can connect video devices such as VCRs, DVD players, camcorders, digital cameras, video game consoles, HDTV receivers, and TV tuners to the projector. You can connect the audio directly to the projector to get sound from the built-in speaker, or you can bypass the projector's audio system and connect the audio directly from your source to a stereo or home theater system.

You can connect the projector to most video devices that can output video. You cannot directly connect the coaxial cable that enters your house from a cable or satellite company, the signal must pass through a tuner first. Examples of tuners are digital cable boxes, VCRs, digital video recorders, and satellite TV boxes. Basically, any device that can change channels is considered a tuner.

Before connecting your projector, you should decide which aspect ratio you want to use. The projector's Aspect Ratio setting is accessed through the Resize button on the remote or through the projector's Basic Menu. See page 26 for more information.

Video device connections

No video cables are provided with the projector. You can order cables from InFocus or provide your own.

HDMI 1.3 connection

HDMI is a standard, uncompressed, all-digital audio/video interface. HDMI provides an interface between sources, such as set-top boxes, DVD players, and receivers and your projector. Plug an HDMI cable into the video-out connector on the video device and into the HDMI connector on the projector.

Composite video connection

Plug the composite video cable's yellow connector into the video-out connector on the video device. Plug the other yellow connector into the yellow **Video** connector on the projector.

VGA connection

If your video device has a 15-pin VGA output, plug one end of the included computer cable into the VGA connector on your video source. This connector may be labeled "To Monitor" on the video source. Plug the computer cable into the **Computer** connector on the projector.

Component video connection

If your HD video device has component connectors, an optional Component to VGA adapter can be used. Plug the component cable into the video device. Plug the other end of the component cable into the adapter and plug the adapter into the **Computer** connector.

S-video connection

Plug the S-video cable's connector into the video-out connector on the video device. Plug the other connector into the black **S-Video** connector on the projector.

Audio

For audio, connect a 3.5mm stereo cable to the **Audio In** connector on the projector and to your source. If your source uses RCA audio connectors, a Y-cable or adapter may be used. (Note: A separate audio connection is not required for HDMI source inputs.

Shutting down the projector

Auto Off Time

The projector also has an Auto Off Time feature that automatically turns the projector off after no active sources are detected and no user interaction with the projector is performed for 30 minutes. By default, this feature is off. You can change the length of time, see page 30.

Turning off the projector

To turn the projector off, press the **Power** button on the remote or keypad. The lamp turns off and the LED blinks amber for I minute while the fans continue to run to cool the lamp. When the lamp has cooled, the LED lights amber and the fans stop. Unplug the power cable to completely power off the projector.

Troubleshooting your setup

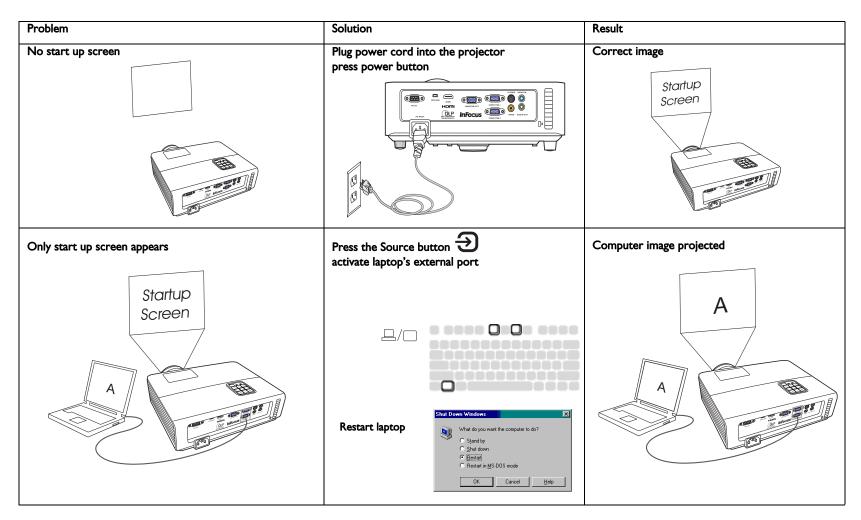
If your image appears correctly on the screen, skip to the next section. If it does not, troubleshoot the setup.

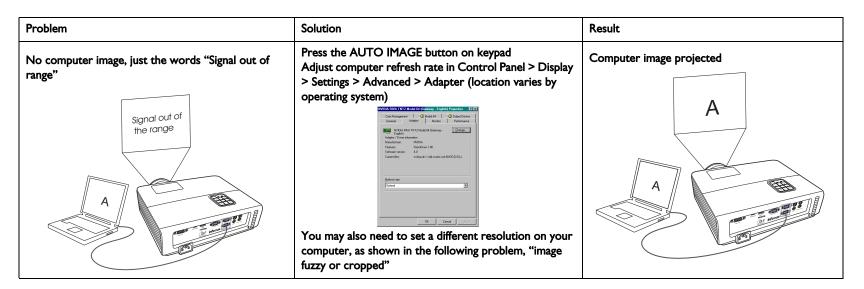
The Status Indicator Panel on top of the projector indicates the state of the projector and can help you troubleshoot.

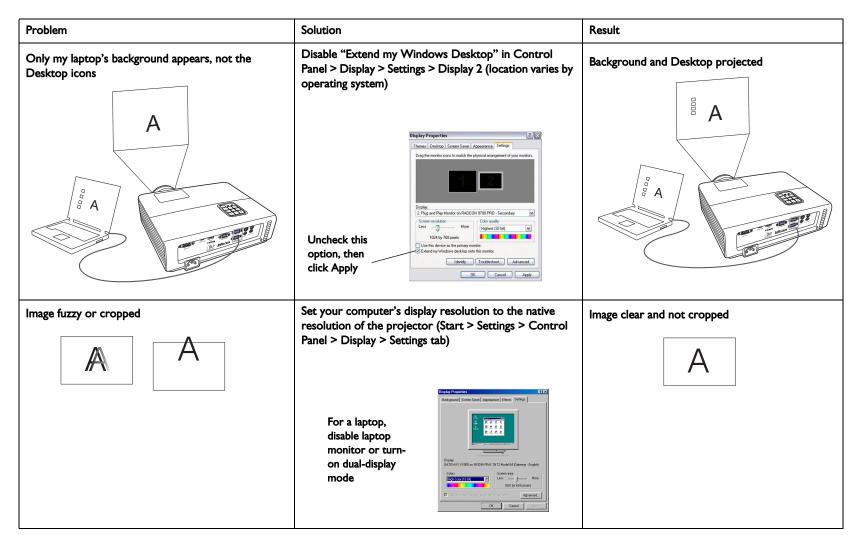


Table 2: Status indicator light behavior and meaning

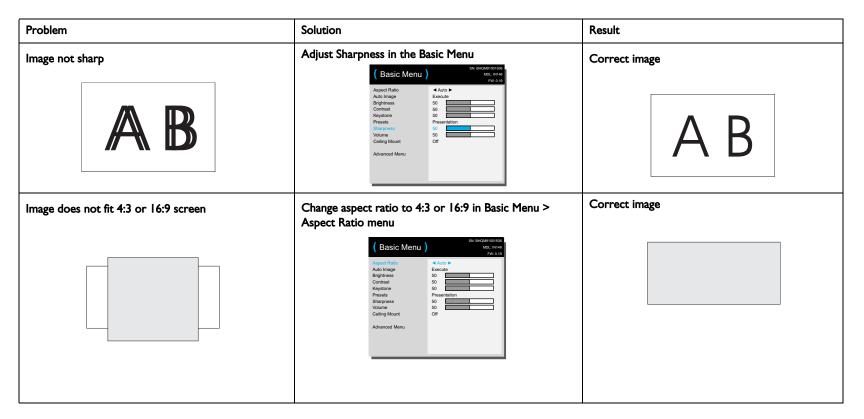
Power, solid amber	The projector is plugged in.		
Power, blinking green	The power button has been pressed and the software is initializing.		
Power, solid green	The projector is on and initialized.		
Power, blinking amber	The power button has been pressed to turn the projector off and the fans are running to cool the projector.		
Thermometer, solid red	The projector is too hot. Make sure the vents aren't blocked (see page 18). Turn off the projector and wait one minute, then turn the projector on again. Contact Technical Support if the problem persists. Visit www.infocus.com/support to contact service.		
Lamp, solid red	If the Lamp LED is on and the other LEDs are off, turn off the projector and wait one minute; then turn the projector on again. If the LED behavior continues (and the other LEDs are off), replace the lamp and reset the lamp timer. If multiple LEDs are on simultaneously or if the behavior continues, contact Technical Support. Repair may be needed.		

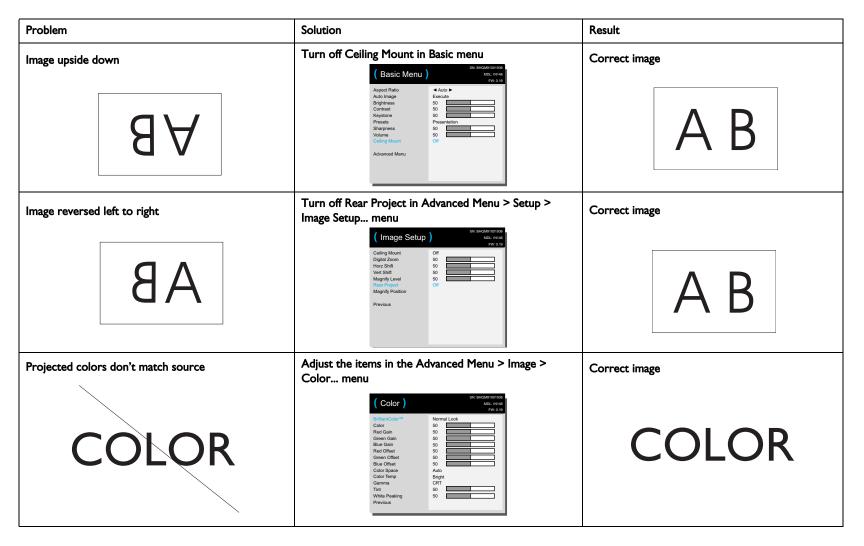


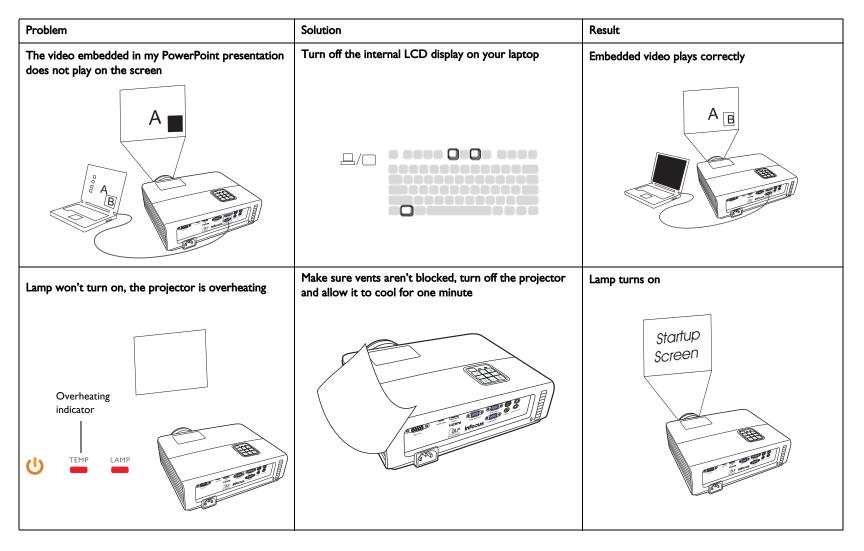


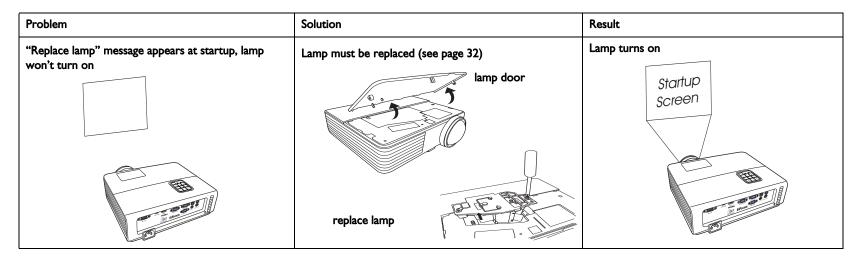


Problem	Solution	Result	
Image not centered on screen	Move projector, adjust height	Correct image	
	Adjust horizontal or vertical position in Advanced Menu > Setup > Image Setup menu		
Image not square	Adjust Keystone on keypad	Square image	
	D D		









Still need assistance?

If you need assistance, visit our website at **www.infocus.com/support** or call us. Check out our HOW TO section there for additional information on using this projector for home theater or gaming applications. See the Quick Start Poster/Booklet for support contact information.

This product is backed by a limited warranty. An extended warranty plan may be purchased from your dealer. When sending the projector in for repair, we recommend shipping the unit in its original packing material, or having a professional packaging company pack the unit. Please insure your shipment for its full value.

Using the remote control

The remote uses two (2) AA batteries (not provided). They are easily installed by removing the cover from the remote's back, aligning the + and - ends of the batteries, sliding them into place, and then replacing the cover.

Caution:

- When replacing the remote batteries, be aware that using batteries other than AA batteries may risk severe damage to the remote. When disposing of the batteries, be sure to do so in an environmentally proper manner.
- If the remote control gets wet, wipe it dry immediately.
- · Avoid excessive heat and humidity.
- Ensure the batteries' polarity (+/-) is aligned correctly.
- Do not mix new and old batteries together, or mix different types of batteries together.
- Replace the batteries as soon as they run out.
- Remove batteries from the remote control when storing or not in use for a prolonged period.

To operate, point the remote at the front of the projector (not at the computer). The range of optimum operation is about 15 feet (4.5m).

Press the remote's **Power** button to turn the projector on and off (see page 11 for shutdown info).

Press the remote's **Menu** button to open the projector's menu system. Use the arrow buttons to navigate, and the **Select** button to select features and adjust values in the menus. See page 25 for more info on the menus.

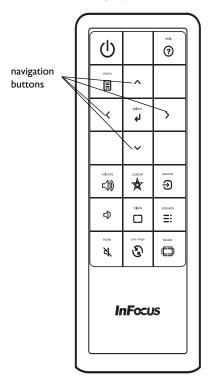
The remote also has:

- Volume buttons to adjust the sound.
- Custom button that can be assigned to a special function, like Blank Screen or Freeze (see page 28).
- Source button brings up a menu of all possible sources allowing the user to switch the active source.
- Blank button to blank the screen.
- Presets button to select stored settings (see page 26).
- Mute button to silence the audio.

- Auto Image button to resynch the projector to the source.
 - **Resize** button to switch among aspect ratios (see page 26).
 - **Help** button to get help with connecting sources and improving the picture.

Troubleshooting the remote

- Make sure the batteries are installed in the proper orientation and are not dead.
- Make sure you're pointing the remote at the projector or the screen, not the computer, and are within the remote range of 15 feet (4.5m). For best results, point the remote at the projector.



Using the audio

Using the projector's speakers

Connect the audio source to the Audio In connectors to hear audio through the projector speakers.

Amplified speakers may also be connected to the projector using the Audio Out connector.

To adjust the volume, press the **Volume** buttons on the remote.

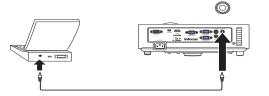
Troubleshooting Audio

If you aren't hearing the audio, check the following:

- Make sure the audio cable is connected to the Audio In connector on the projector, and that the other end of the cable is connected to an Audio Out connector on the source (not a "line-in" or "microphone" connector).
- Make sure the volume is turned up enough. Press the Volume button on the remote.
- Make sure the correct source is active.
- Adjust the audio source.
- If playing a video, make sure the playback has not been paused.

connect audio cable





Using the keypad buttons

Most buttons are described in detail in other sections, but here is an overview of their functions:

Power-turns the projector on and off (page 8).

Auto Image-resets the projector to the source (page 22).

Presets / Select–cycles through the available preset settings (page 26) / confirms choices made in the menus (page 25).

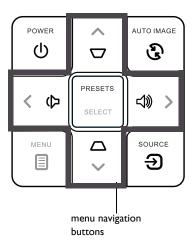
Keystone-adjusts squareness of the image (page 9).

Menu-opens the on-screen menus (page 25).

Up/Down/Left/Right arrows-navigates to and adjusts settings in the menus (page 25).

Volume-adjusts sound (page 21).

Source–brings up a menu with all possible sources, allowing the user to change the active source (page 8).



Optimizing computer images

After the projector is running and the image is on the screen, you can optimize the image using the onscreen menus. For general information on using the menus, see page 25.

- Select default image settings using a preset appropriate to your environment.
- Adjust the Keystone, Contrast, or Brightness (page 26).
- Change the Aspect Ratio. Choose the option that best fits your input source (page 26).
- Adjust the Color Temperature (page 27).
- Adjust the Phase, Tracking, or Horizontal or Vertical position (page 27).
- Once you have optimized the image for a particular source, you can save the settings using Presets. This allows you to quickly recall these settings later (page 26).

Presentation features

Several features are provided to make giving presentations easier. Here is an overview, details are found in the menu section.

- The Custom key allows you to assign various features to the button. The
 default effect is Source Info, which displays information about the projector
 and current source. See page 28 for details.
- The Search Screen option lets you change the appearance of the blank screen and start up screen (page 29).
- Auto Off Time is provided to automatically shut down the projector after several minutes. This helps preserve lamp life (page 29).

Optimizing video images

After your video device is connected properly and the image is on the screen, you can optimize the image using the onscreen menus. For general information on using the menus, see page 25.

- Adjust the Keystone, Contrast, Brightness, Color, or Tint (page 26).
- Change the Aspect Ratio. Choose the option that best fits your input source (page 26).
- Select a Sharpness setting (page 26).
- Adjust the Color Temperature. Select a listed warmth value (page 27).
- Turn on Overscan to remove noise on the edges of the image (page 27).

Customizing the projector

You can customize the projector for your specific setup and needs. See page 28 for details on these features.

- For rear projection, turn Rear Project on in the Advanced Menu > Setup > Image Setup... menu.
- For ceiling mounted projection, turn Ceiling Mount on in the Basic menu.
- Specify which source the projector checks first for active video during powerup.
- Specify the function of the Custom key on the remote.
- Turn the projector's display messages on and off.
- Turn on power saving features.
- Specify appearance of blank screen and startup screen.
- Specify the language viewed on the menus.
- Save settings for the active source as a preset.

Dynamic Messaging

Using command codes, text messages can be sent for display by the projector (and all other InFocus projectors with the Dynamic Messaging feature) over a network or serial connection. Text is shown on top of whatever else is being displayed, and can be shown in ticker tape format or in a box, with optional beep tone alert. This is a great way to display urgent alert messages to employees, and simply requires a connection to the projector RS-232 serial control or LAN connector. Command codes for executing Dynamic Messaging are available on our website at www.infocus.com/support.

Using the menus

- I To open the menus, press the **Menu** button on the keypad or remote. (The menus automatically close after 60 seconds if no buttons are pressed.) Use the arrow buttons to move up and down to review the menu options.
- 2 To enter a submenu, highlight the desired submenu and press Select.
- 3 To adjust a menu setting, highlight the desired menu option and press Select or
 >. Then press < or > to scroll through the available adjustments. To save your adjustments, press Select.
- 4 Press the **Menu** button to exit the menu system.

The menus are grouped by usage:

- The Basic Menu provides common image adjustments.
- The Advanced Menu provides more complex image adjustments.



keypad navigation buttons



Basic Menu



Advanced Menu

Basic Menu

To adjust the following settings, highlight the setting, press **Select**, use the right and left arrows to adjust the values, then press **Select** to confirm the changes.

Aspect Ratio: Aspect ratio is the ratio of the image width to image height. TV screens are usually 4:3. HDTV and most DVDs are 16:9.

Select Auto to have the projector choose the ratio. Choose Native to see the unmodified input with no resizing by the projector. Select 16:9 to watch enhanced widescreen DVDs.

For more information regarding Aspect Ratio, see page 10.

Auto Image: resets the projector to the source.

Brightness: changes the intensity of the image.

Contrast: controls the degree of difference between the lightest and darkest parts of the picture and changes the amount of black and white in the image.

Keystone: adjusts the image vertically and makes a squarer image. You can also adjust keystone from the keypad.

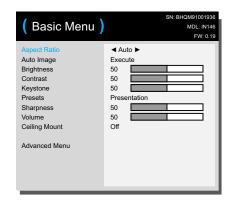
Presets: Presets are provided that optimize the projector for displaying computer presentations and video images under certain conditions. Note: User changes are temporarily saved as User Presets.

Sharpness: (video sources only) changes the clarity of the edges of a video image. Select a sharpness setting.

Volume: increases or decreases the audio volume.

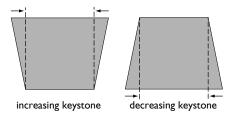
Ceiling Mount: turns the image upside down for ceiling-mounted projection.

Basic Menu



Aspect ratio





Advanced Menu

Image:

3D Control:

3D Control: allows you to enjoy 3D (stereoscopic) content. Your IN I 46 supports two synchronization modes (External Sync and DLP Link $^{\rm IM}$) for controlling LCD shutter glasses. In addition to the projector, you will need a pair of 3D shutter glasses, 3D content, and 3D compatible source (and emitter). Ensure the glasses you choose are consistent with the synchronization mode you will be using.

3D Sync Invert: (Only applies when 3D control is set to DLP Link $^{\text{IM}}$.) If the image appears to flutter, look odd or if the image depth looks off or you experience eye strain, turn this feature on to see if the image improves.

Color...

BrilliantColor™: produces an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images. Choose Normal Look for most video sources and Bright Look for most computer sources.

Color: adjusts a video image from black and white to fully saturated color. The color setting applies to video sources only.

Red/Green/Blue Gain: adjusts the gain of the red, green or blue channel of the image.

Red/Green/Blue Offset: adjusts the offset of the red, green or blue channel of the image.

Color Space: applies to computer and component video sources. It allows you to select a color space that has been specifically tuned for the input signal. When Auto is selected, the projector automatically determines the standard. To choose a different setting, turn off Auto, then choose RGB for computer sources or choose either REC709 or REC601 for component video sources.

Color Temperature: changes the intensity of the colors. Select a listed relative warmth value.

Gamma: select the appropriate gamma from among Video, Film, Bright, and CRT.

Tint: adjusts the red-green color balance in the image of NTSC video images. The tint setting applies to NTSC video sources only.

White Peaking: increases the brightness of whites that are near 100%.

PC:

Force Wide: when this is off, the analog locking algorithms choose the standard mode resolution (4:3) as the preferred default resolution. When this is on, the analog locking algorithms choose wide mode resolution (16:10) as the preferred default resolution.

Phase: adjusts the horizontal phase of a computer source.

Prevent PC Screen Saver: prevents your computer from going into Screen Save mode. The projector must be connected to the PC via a USB cable for this feature to work.

Sync Threshold: (progressive signals only) If a hardware device, such as a DVD player, is not syncing properly with the projector, select this option to help it to sync when connected to the projector.

Tracking: adjusts the vertical scan of a computer source.

Horizontal/Vertical Position: adjusts the position of a computer source.

Video:

Detect Film: determines whether the original source of the input video was film (progressive) or video (interlaced).

Overscan: removes noise around the video image.

Set Black Level...: analyzes the current input image and calculates an offset value which is then added to the analog to digital converter black level value. This ensures optimum black level for each analog source.

Advanced Menu



Serial:

Serial Port Baud Rate: selects the serial port and baud rate.

Serial Port Echo: controls whether the serial port echoes characters.

Setup:

Audio Setup...

Internal Speaker: turns the internal speaker on or off.

Power Sounds: controls whether the projector makes a sound when powered on and off.

Closed Captioning...

Closed Captions: controls closed captioning. If the source is NTSC and contains captions on the selected channel, then the projector will display caption text overlaid on the image. When Closed Captions is off and volume is muted, closed captioning will appear. Options are: Off, CCI and CC2.

Image Setup...

Ceiling Mount: turns the image upside down for ceiling-mounted projection.

Digital Zoom: reduces the size of projector's display area. If the display area has been resized by this setting, it can be moved by changing the **Horz Shift** and **Vert Shift** settings.

Horz Shift/Vert Shift: moves the display area horizontally or vertically if its size has been changed by the **Digital Zoom** setting.

Magnify Level: magnifies the image.

Rear Project: reverses the image so you can project from behind a translucent screen.

Magnify Position: moves the magnified image.

Keypad/Remote Settings...

Blank Key: select what to display when the blank key on the remote is pressed: your custom snapshot, a solid color screen (blue, black or white), the factory logo screen, a timer, or test patterns. The timer option is useful for classroom tests or break times during meetings.

Custom Key: allows you to assign a different function to the Custom button, allowing you to quickly and easily use the effect. Highlight an effect and press **Select** to choose a different one.

- Blank Screen: displays an empty screen.
- Mute: turns off all sound.
- Source: cycles through available sources.
- Auto Image: resets the projector to the source (page 22).
- Freeze Screen: pauses the projected image.
- Source Info: the default action. Shows the Source Info menu.
- **Projector Info**: shows the Projector Info menu.
- Overscan: removes noise around the image.
- AV Mute: enables or disables AV Mute function.
- Closed Captions: enables or disables Closed Captions.

Keypad: enables or locks the projector keypad.

Source Key 1/2/3: defines the source being displayed when the Source Key 1/2/3 is pressed if there is Source Key 1/2/3 on your Infocus projector remote control.

Lamp...

Lamp Low Power: toggles between on and off. Turn it on to lower the light output of the lamp. This also lowers the fan speed, making the projector quieter.

OSD Setup...

Language: allows you to select a language for the onscreen display.

Menu Position: allows you to change the position of the On Screen Display items.

Menu Transparency: allows you to change how much of the projected image behind the menu you can see. As the value increases, more of the image behind the menu is visible.

Show Messages: displays status messages (such as "Searching") in the lowerleft corner of the screen.

PIN Settings

PIN Protect: The PIN (personal identification number) feature allows you to password protect your projector. Once you enable the PIN feature, you must enter the PIN before you can project an image. The default PIN on this projector is Menu-Source-Select-Up-Down. Use the navigation buttons on the remote or keypad to enter the correct 5-button press sequence. When all 5 numbers are entered correctly, press the Select button on the remote or keypad to select OK. If the message "Wrong PIN" appears, verify the code and re-enter it. If you mis-enter a number, you must enter 5 numbers and press the Select button in order to access the "Wrong PIN" message and reenter the code.

To enter the PIN at projector startup:

Power up the projector. The "Enter PIN" dialog box appears after the startup screen. Enter the PIN. Use the navigation buttons on the remote or keypad to enter the correct button press sequence. See the description above for instructions.

To change the PIN:

Select "Change PIN..." in the Advanced Menu > Setup > PIN settings menu. Enter the existing PIN. Enter the new PIN. You can navigate between OK and 29 Cancel by pressing the up and down buttons on the keypad. Select OK or Cancel by pressing the **Select** button. Verify the new PIN.

If you lose or forget your custom PIN: Contact InFocus support. Go to www.infocus.com/support

Power

AC Power On: When this feature is on, the projector automatically turns on when electrical power is connected. This allows control of ceiling mounted projectors with a wall power switch.

Power Saving Mode: When Power Saving Mode is On, the monitor out function will not work when the projector is in standby (powered off but connected to AC Power).

Snapshot

Take Snapshot...: captures the current image and allows it to be used as the search screen image.

Disable Snapshot: allows the user to disable the snapshot capability.

Source

Auto Source: When this feature is On, the projector automatically finds the active source, checking the selected Power-up Source first. When this feature is Off, the projector defaults to the source selected in Power-up Source. To display another source, you must manually select one by pressing the Source button on the remote or keypad.

Power-up Source: determines which source the projector checks first for active video during power-up.

Search Screen: allows you to display a blank screen instead of the default screen at startup, and when no source is detected.

Timer

Auto Off Time: automatically turns the projector off after no signals are detected for a preset number of minutes. If an active signal is received before the projector powers down, the image will be displayed.

High Altitude Setting

High Altitude Setting: We recommend you turn on the High Altitude Mode when your environment is between 1500 m - 3000 m above sea level.

Status/Service:

Source Info: a read-only display of current source settings.

Projector Info: a read-only display of current projector settings.

Reset Lamp Hours...: resets the lamp hours used counter in the Projector Info menu to zero. Do this only after changing the lamp.

Factory Reset...: restores all settings to their default.

Service Code...: only used by authorized service personnel.

Maintenance

Cleaning the lens

- I Apply a non-abrasive camera lens cleaner to a soft, dry cloth.
 - Projector must be off and the lens must be at room temperature.
 - Avoid using an excessive amount of cleaner, and don't apply the cleaner directly to the lens. Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
- 2 Lightly wipe the cleaning cloth over the lens in a circular motion.

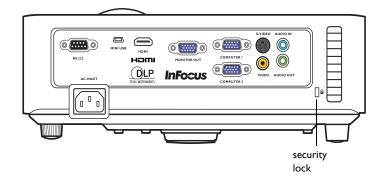
WARNINGS:

- Turn the projector off and unplug power cord before cleaning any part of the projector.
- Do not touch or block the projector lens with any objects as this can
 damage the projector lens. Use the lens cap when the projector is not in
 use and during transport. Scratches, gouges and other lens damage are not
 covered by the product warranty.
- Do not open any cover on the projector, except the lamp cover.
- Do not attempt to service this product yourself as opening and removing covers may expose you to dangerous voltage and other hazards. Refer all servicing to qualified service personnel.

Using the security lock

The projector has a security lock for use with a Cable Lock System. Refer to the information that came with the lock for instructions on how to use it.





Replacing the projection lamp

The Lamp Hours timer in the Projector Info menu counts the number of hours the lamp has been in use. Twenty hours before the lamp life expires, the message "Replace lamp" appears on the screen at startup.

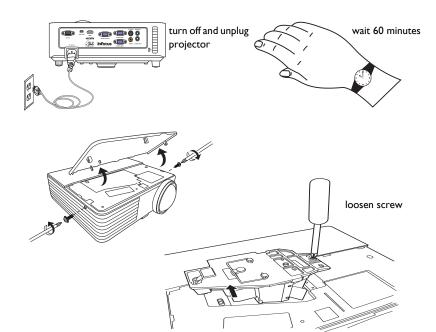
NOTE: Be sure to use the InFocus lamp module designed for this projector. You can order new lamps from www.infocus.com (in select areas), your retailer or your dealer. Only genuine InFocus lamps are tested for use in this projector. Use of non InFocus lamps may cause electrical shock and fire, and may void the projector warranty. InFocus is not liable for the performance, safety or certification of any other lamps.

WARNINGS:

- The projector uses a high-pressure mercury glass lamp. The lamp may fail
 prematurely, or it may rupture with a popping sound if jolted, scratched, or
 handled while hot. The risk of lamp failure or rupture also increases as the
 lamp age increases; please replace the lamp when you see the "Replace Lamp"
 message.
- To avoid burns, allow the projector to cool for at least 60 minutes before you replace the lamp.
- Unplug the power cord before replacing the lamp.
- Do not drop the lamp module. The glass may shatter and cause injury.
- Do not touch the glass surface of the lamp module. Fingerprints can obscure
 projection sharpness and may cause the glass to shatter.
- Be extremely careful when removing the lamp housing. In the unlikely event that the lamp ruptures, small glass fragments may be generated. The lamp module is designed to contain most of these fragments, but use caution when removing it.
- Before replacing a ruptured lamp, clean the lamp compartment and dispose of cleaning materials. Wash hands after lamp replacement.
- When replacing the lamp while the projector is ceiling-mounted, wear protective eyewear to prevent eye injury.

Hg – Lamp contains mercury. Manage in accordance with local disposal laws. See **www.lamprecycle.org**.

- I Turn off the projector and unplug the power cord.
- **2** Wait 60 minutes to allow the projector to cool thoroughly.
- **3** Remove the lamp door, located on top of the projector, by removing the two screws on either side of the lamp door, and lifting the lamp door off using the latch at the front ofthe projector.
- **4** Loosen the captive screw that attaches the lamp housing to the projector. **NOTE**: If the projector is installed on a ceiling mount, be careful not to drop the lamp module once the captive screw is loosened.
- 5 Carefully lift the lamp straight up, off of the alignment pins; being careful not to pinch the lamp connector. Dispose of the lamp in an environmentally proper manner.
- **6** Install the new lamp module, aligning the pins properly. Be careful not to pinch the lamp connector.
- **7** Tighten the screw. (**NOTE**: If the pins have not been aligned properly, the screw will not tighten securely.)
- **8** Replace the lamp door by (a) aligning the hinges, (b) putting the lamp door down and (c) locking it back into place.
- **9** Replace the lamp door screws and tighten securely.
- 10 Plug in the power cord and press the Power button to turn the projector back on.
- II To reset the lamp hour timer, navigate to the **Advanced Menu > Status/Service** menu and select **Reset Lamp Hours...** See page 31 for details.





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